

New York Fast Ferry Services, Inc.
Vessel Operating Manual Excerpts

Vessel Particulars

Navigation Equipment

**Operating Instructions/
Areas of Responsibility**

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Volume

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NEW YORK FAST FERRY SERVICES, INC.

Vessel Operations

Vessel Operating Manual

Operating Instructions

Information regarding daily inspections, vessel operating and handling.

General

DAILY INSPECTION

Inspections at the start and end of each operating day shall be made of the vessel and of its equipment to insure the vessel's adequacy for service. Checks and inspections within each department shall be the responsibility of the lead crew member of that department with overall responsibility residing with the Master. The Master shall make daily overall inspections.

TECHNICAL LOG

Daily log entries shall be made in the appropriate logs recording the operational conditions and technical details for each system. Logs shall be kept by the lead crew member in each department.

DEFECTS

All defects and discrepancies shall be noted, recorded and reported to the Master. It is the Master's responsibility to decide the adequacy of the vessel and equipment to provide safe operations. Defects shall be remedied at the direction of the Master.

CHECKS BY OPERATING CREW

The operating crew shall at all times have an awareness of all vital systems, their condition and their effect on the safety of the passengers and the vessel. Each engine room and the auxiliary machinery space shall be visually inspected by a crew member on a periodic base determined by the Master.

AREAS OF RESPONSIBILITY

Master	Total responsibility for the operation of the vessel and the safety of the passengers, crew and the overall condition of the vessel
"Navigator" (Senior Deckhand)	Assist with the operation of navigational equipment, act as lookout when required and operation of deck gear.
"Steward" (Deckhand)	Operation of the service bar including its stocking, maintenance and sales transactions. Also responsible for passenger saloon cleaning and proper garbage removal from vessel.
"Engineer" (Deckhand)	Operation of the main and auxiliary machinery, its daily startup and shut down and logs.

Pre-Start Checks

THE CRAFT

OK	Action
	Check that vessel is floating normally, no increase in draft or unusual trim attitude.
	Check the area around the waterjet units for debris.
	Unlock all cabin doors and engine room hatches.
	Check weather decks and gangway for ice, snow, water and debris.
	Vessel walk-through inspection.
	Check location and condition of lifebuoys and lines.

Leading Particulars

CRAFT DIMENSIONS

LOA (hull)	37.7 m	124 ft
LOA (including jets)	38.7 m	127 ft
Beam overall	10.0 m	32.8 ft
Depth	4.4 m	14.4 ft

CRAFT DRAUGHTS

Trim fwd	2.0 m - 1.1 m	6.6 ft - 3.6 ft
Trim aft	1.5 m - 1.8 m	4.9 ft - 5.9 ft

HEIGHT ABOVE WATERLINE

Freeboard (fwd)	2.2 m - 3.1 m	7.2 ft - 10.2 ft
Bridge Clearance	12.2 m	40 ft

PAYLOAD

Passengers - 350 x 75 kg	26,250 kg	57,871 lbs
Passenger hand luggage - 350 x 5 kg	1,750 kg	3,858 lbs

TONNAGES AND DISPLACEMENTS

Gross Tonnage	87 tonnes
Net Registered Tons	
Displacement Tons, light	

FUEL & LUB OIL TANK CAPACITY

Diesel oil tanks P/S	6450 LT (each)	1708 US gal (each)
Lubricating oil tanks P/S	200 l (each)	53 US gal (each)

ENGINES

Main propulsion (2x)	MTU 16V 396 TE74L
Generator (2x)	Alaska Diesel Electric-Northern Lights, M55C-2S

TRANSMISSION

Marine reversing gear (2x) ZF type BW 755

PROPULSION UNITS

Waterjet (2x) MJP size 63

ELECTRICAL

AC generators (2x) 50 kVA

System voltage 208 v three phase/120 v single phase

Shore power 100 amp 240 v three phase

NAVIGATION EQUIPMENT

<i>item</i>	<i># units</i>	<i>model</i>	<i>description</i>
VHF	2	Icom M126DSC	83 watt
Radar	1	Furuno - FR2110	X-band, 10 kw, 36 rpm, ARPA
Radar	1	Furuno - FR8111	X-band, 10 watt, 36 rpm
Chart Plotter	1	PinPoint - PCECDIS 100	RTCM 109 compliant electronic charting system
GPS/Loran	1	Northstar - 941XD	DGPS w/ chart plotter
Autopilot	1	Robertson - AP9MKII	Autopilot with G-9 gyro compass
Gyro Compass	1	KVH - Azimuth digital gyro compass ADGC	
Instruments - Nav	3 displays	KVH - Quatro	Compass, speed, depth, wind dir/speed
Night Vision	1	Texas Instruments	Infrared night sight